

## ABSTRACT

The optical amplifier apparatus comprises an optical amplifier (3) which amplifies an input signal light, an output detecting unit (5) which detects an output level of the optical amplifier, an output control unit (6) which controls an output level of the optical amplifier according to an output level detected by the output detecting unit (5), a gain inclination detecting unit (7) which detects a gain inclination relating to a wavelength of the optical amplifier, and a gain inclination control unit (8) which controls a gain inclination of the optical amplifier (3) according to a gain inclination detected by the gain inclination detecting unit (7).